PTO/SB/05 (08-03)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	5000-1-547
First Inventor	Sung-Kee Kim et al.
Title	DUO-BINARY ENCODER AND
Express Mail Label No.	EV 397157996 US

		Express Mail Educi 116.	
	PPLICATION ELEMENTS er 600 concerning utility patent application contents.	ADDRESS TO: Commiss P.O. Box	Patent Application sloner for Patents 1450 ia VA 22313-1450
2. Applicant of See 37 CF Specification (preferred an - Descriptive - Cross Refe - Statement - Reference or a compute - Backgroun - Brief Sumr	on [Total Pages 22] rangement set forth below) be title of the invention greence to Related Applications Regarding Fed sponsored R & D to sequence listing, a table, atter program listing appendix and of the Invention mary of the Invention ription of the Drawings (if filed)	ii. Paper	endix) I Sequence Submission Form (CRF) Force Listing on: CD-R (2 copies); or
Claim(s)		ACCOMPANYING A	PPLICATION PARTS
4. Drawing(s) 5. Oath or Declarat a. Newly e b. Copy fro (for con i. DEL Signe name 1.63(6. Application 18. If a CONTINUIT specification followin Prior application inform	executed (original or copy) om a prior application (37 CFR 1.63(d)) tinuation/divisional with Box 18 completed) ETION OF INVENTOR(S) ad statement attached deleting inventor(s) in the prior application, see 37 CFR (d)(2) and 1.33(b). on Data Sheet. See 37 CFR 1.76 NG APPLICATION, check appropriate box, and suppose the title, or in an Application Data Sheet under 30 cm. Divisional Continuation: Examiner	10. 37 CFR 3.73(b) Statem (when there is an assig English Translation Dot 12. Information Disclosure Statement (IDS)/PTO-1 13. Preliminary Amendment Return Receipt Postcar (Should be specifically 15. Certified Copy of Priorit (if foreign priority is clair Nonpublication Reques (b)(2)(B)(i). Applicant mor its equivalent. 17. Other:	Attorney cument (if applicable) Copies of IDS 449 Citations It Id (MPEP 503) itemized) by Document(s) med) It under 35 U.S.C. 122 bust attach form PTO/SB/35 and in the first sentence of the
	OF DIVISIONAL APPS only; The entire disclosure of the		
	art of the disclosure of the accompanying continuation <u>n only</u> be relied upon when a portion has been inadvert		
	19. CORRESPONI		
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Name (Print/Type)	Steve S. Cha	Registration No. (Attorney/Agent)	44,069
Signature	1/2 //		Date 3/23/04

This collection of information is required by 37 CFR 1.53(b). The left mation is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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(2)	982.	UU.

Complete if Known		
Application Number	Unassigned	
Filing Date	March 23, 2004	
First Named Inventor	Sung-Kee Kim et al.	
Examiner Name	Unassigned	_
Art Unit	Unassigned	
Attorney Docket No.	5000-1-547	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES	3. ADDITIONAL FEES				
Deposit Account:	Large Entity Small Entity					
Deposit	Fee Fee Fee Fee Fee Description Code (\$)	Fee Paid				
Account Number 502-470	1051 130 2051 65 Surcharge - late filing fee or oath	******				
Deposit Account Cha & Reiter	1052 50 2052 25 Surcharge - late provisional filing fee or					
Name	cover sheet 1053 130 1053 130 Non-English specification					
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination					
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to					
Charge fee(s) indicated below, except for the filing fee	Examiner action 1805 1,840* 1805 1,840* Requesting publication of SIR after					
to the above-identified deposit account.	Examiner action					
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month					
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month					
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month					
Fee Fee Fee Fee Pee Paid Code (\$) Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month					
1001 770 2001 385 Utility filing fee 770	1255 2,010 2255 1,005 Extension for reply within fifth month					
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal					
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal					
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing					
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 770	1452 110 2452 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional					
Fee from	1501 1,330 2501 665 Utility issue fee (or reissue)					
Extra Claims below Fee Paid Total Claims 17 -20** = X = 0	71 · · · · · · · · · · · · · · · · · · ·					
Independent 5 2** - 2 × 86 - 172	1503 640 2503 320 Plant issue fee					
Claims 53 - 22	1460 130 1460 130 Petitions to the Commissioner					
Large Entity Small Entity	1 1807 50 1807 50 Processing fee under 37 CFR 1.17(q)					
Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt 8021 40 8021 40 Recording each patent assignment per	10.00				
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021 40 8021 40 property (times number of properties)	40.00				
1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))					
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be					
1204 86 2204 43 ** Reissue independent claims over original patent	examined (37 CFR 1.129(b))					
1205 18 2205 9 ** Reissue claims in excess of 20	1801 770 2801 385 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination	——-				
and over original patent	of a design application					
SUBTOTAL (2) (\$) 172	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00					
SUBMITTED BY (Complete (if applicable))						
Nama (Print/Type) Stoye Cha	Registration No. 44 060 Telephone 201 519 5519					

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